

Identification of Achievable Performance Standards
Source Category: Fugitive Emissions of VOCs from Chemical Plants

Rule/Measure					
	BAAQMD Regulation 8-Organic Compounds, Rule 18-Valves and Connectors at Petroleum Refinery Complexes, Chemical Plants, Bulk Plants and Bulk Terminals. 3/4/92.	BAAQMD Regulation 8-Organic Compounds, Rule 22-Valves and flanges at Chemical Plants. 6/1/94.	BAAQMD Regulation 8-Organic Compounds, Rule 25-Pump and Compressor Seals at petroleum Refinery, Chemical Plants, Bulk Plants and Bulk Terminals. 6/1/94	BAAQMD Regulation 8-Organic Compounds, Rule 28-Pressure Relief Valves at Petroleum Refinery and Chemical Plants, Bulk Plants and Bulk Terminals. 6/1/94	
Exemptions			<u>Maintenance & Repair Standards Exemption</u> (<u>Except for Liquid Leaks</u>): - facilities with less than 10 pumps	<u>Leak/Repair Standards Exemption:</u> - any pressure relief valve on storage tanks. - the static upstream pressure exceeds the setpoint of the pressure relief valve.	
	<u>Inspection, Identification and Record Keeping Exemption:</u> - valves or connectors handling organic liquids having initial boiling point > 150 °C (302 °F). - research and development plants which produce only non-commercial products solely for research and dev. purposes. - valves and connectors in vacuum service.		<u>Inspection, Identification and Record Keeping Exemption:</u> - pumps and compressors handling organic liquids with initial boiling point > 150 oC (302 oF).	<u>Leak/Repair Standards and Inspection Exemption:</u> - emissions from the pressure relief valve is vented to a vapor recovery or disposal system that is at least 95% efficient. - the pressure relief valve is protected by a rupture disk.	

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	<u>Rule Exemption:</u> - Bulk plant and terminal loading racks-connections at the interface between loading rack and the vehicle being loaded. - Small facilities-facilities which have less than 100 valves.	<u>Rule Exemption:</u> - Low vapor pressure-valves or flanges which handle only organic liquids with a vapor pressure less than 2.6 mmHg (0.05 psia) at 20 oC (68 oF) or exhibit a 10% evaporation point > 150 oC (302 oF) when using ASTM D-86. - Natural gas-valves or flanges handling only commercial natural gas. - Research and development facilities which produce only non-commercial products for research and dev. purposes. - Large facility-valves or flanges in chemical plants having 100 or more valves, which are subject to Reg. 8, Rule 18-Valves and connectors at Petroleum Refineries, Chemical Plants, Bulk Plants and Bulk Terminals.	<u>Rule Exemption:</u> - pump seals vented to vapor recovery or disposal system which reduces emissions of organic compounds from the pump seals to less than 0.3 lb/day. Proof of eligibility must be submitted to APCO by operator. - compressor seals vented to vapor recovery or disposal system which reduces emissions of organic compounds from the compressor seals to less than 1.7 lb/day. Proof of eligibility must be submitted to APCO by operator. - pumps and compressors which produce only non-commercial products solely for research and development purposes.	<u>Rule Exemption:</u> - pressure relief valves handling only organic liquids with a vapor pressure less than 2.6 mmHg (0.05 psia) at 20 oC (68 oF) or exhibit a 10% evaporation point greater than 150 oC (302 oF) according to appropriate test method. - research or development facilities which produce only non-commercial products for research and development purposes.	

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Applicability	Leaking valves and connectors at petroleum refinery complexes, chemical plants, bulk plants and bulk terminals.	Valves and flanges at chemical plants that has less than 100 valves.	Pump and compressor seals at petroleum refineries, chemical plants, bulk plants and bulk terminals.	Pressure relief valves on any equipment handling organic compounds at petroleum refineries and chemical plants.	
Comments					

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	<u>Definition:</u> - Petroleum Refinery Complex: Any facility engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants or other products through distillation of petroleum or through redistillation, cracking, rearrangement or reforming of unfinished petroleum derivatives.	<u>Definition:</u> - Chemical Plants: Any facility engaged in producing organic or inorganic and/or manufacturing products by chemical processes. Any facility or operation that has 28 as first digits in their Standard Industrial Classification (SIC) Code as det. from the SIC Manual published in 1972 by the EO of the President, Office of Management and Budget. May include, but not limited to the manufacture of: industrial inorganic and organic chemicals; plastic and synthetic resins, synthetic rubber, synthetic and other man made fibers; drugs; soap, detergents and cleaning preparations, perfumes, cosmetics and other toilet preparations; paints, varnishes, lacquers, enamels and allied products; agricultural chemicals; safflower and sunflower oil extracts; re-refining.	<u>Definition:</u> - Essential Pump or Compressor: A pump or compressor which cannot be taken out of service without reducing by more than 33% the throughput of the process unit which its serves. - Petroleum Refinery - Chemical Plant: - Reciprocating Pump: A positive displacement pump in which a plunger or piston displaces a given volume of fluid for each stroke. - Gear Pump: A rotary pump in which two or more gears mesh to provide a pumping action. - Small Facility: A chemical plant that has less than 10 pumps. - Large Facility: A chemical plant that has 10 or more pumps.	<u>Definition:</u> - Chemical Plant: - Rupture Disc: The thin metal diaphragm held between flanges. - Background: - Inaccessible Pressure Relief Valve:	

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		<u>Definition con't:</u> - Inaccessible: not in an accessible location as defined by Title 8, Section 33207, General Industrial Safety Orders of CAL OSHA 1986. - Small Chemical Plant: any plant that has less than 100 valves.			

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